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CLOTHES DRYER**Abstract Of The Disclosure**

A clothes dryer has a first four pole motor that rotates a rotatable drum in the dryer through a transmission system. The clothes dryer has a second two pole self speed regulated induction motor connected to a blower fan in the air passageway of the dryer. The second motor rotates the fan to draw air out of the dryer and exhaust the air to an external vent. The second motor provides a long venting application and has a slip characteristic whereby the speed of the second motor automatically varies directly proportional to air flow restrictions associated with the external vent.